

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004501

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ D04H1/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ D04H, D01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004

Kokai-Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPIL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------------------------------------|-----------------------|
| X Y | JP 9-13256 A (Unitika Ltd.), 14 January, 1997 (14.01.97), Claims; Par. Nos. [0011], [0018] (Family: none) | 1-12 13-17 |
| X Y | JP 8-325912 A (Unitika Ltd.), 10 December, 1996 (10.12.96), Claims; Par. Nos. [0010], [0015] (Family: none) | 1-12 13-17 |
| X Y | JP 8-325911 A (Unitika Ltd.), 10 December, 1996 (10.12.96), Claims; Par. Nos. [0010], [0015] (Family: none) | 1-12 13-17 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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Date of the actual completion of the international search
04 June, 2004 (04.06.04)Date of mailing of the international search report
29 June, 2004 (29.06.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------------------------------------|-----------------------|
| X Y | JP 6-313256 A (New Oji Paper Co., Ltd.), 08 November, 1994 (08.11.94), Claims; table 1 (Family: none) | 1-5, 8-12 13-17 |
| X Y | JP 10-251956 A (Unitika Ltd.), 22 September, 1998 (22.09.98), Claims; Par. No. [0021] (Family: none) | 1-5, 8-12 13-17 |
| Y | JP 51-40476 A (Imperial Chemical Industries, Ltd.), 05 April, 1976 (05.04.76), Claims & US 4043331 A | 13-17 |
| Y | JP 57-51809 A (Carl Freudenberg), 26 March, 1982 (26.03.82), Claims & EP 47795 A | 13-17 |